

## GILA RIVER BASIN

09484570 MESCAL ARROYO NEAR PANTANO, AZ

LOCATION.--Lat 31°59'23", long 110°33'52", NE<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub> sec.1, T.17 S., R.17 E., Pima County, Hydrologic Unit 15050302, at county road, 0.25 mi above mouth, and 1.1 mi southeast of Pantano.

DRAINAGE AREA.--38.4 mi<sup>2</sup>.

### Annual peak discharges

Water year	Date	Annual peak discharge (ft <sup>3</sup> /s)	Discharge codes	Water year	Date	Annual peak discharge (ft <sup>3</sup> /s)	Discharge codes
1958	08-11-58	<sup>1</sup> 27,000	HP	1973	07-00-73	320	
1965	09-12-65	1,600		1974	08-19-74	620	
1966	08-13-66	1,610		1975	09-06-75	510	
1967	07-12-67	290		1976	07-29-76	385	
1968	08-03-68	430		1977	09-10-77	1,700	
1969	08-05-69	950		1978	10-06-77	2,100	
1970	07-21-70	680		1979	08-12-79	130	
1971	08-19-71	6,140		1980	09-07-80	15	
1972	09-00-72	520		1981	07-06-81	3,500	

<sup>1</sup>Highest since 1930.

Magnitude and probability of instantaneous peak flow based on period of record 1958, 1965-81

Discharge, in ft <sup>3</sup> /s, for indicated recurrence interval in years, and exceedance probability, in percent					
2 50%	5 20%	10 10%	25 4%	50† 2%	100† 1%
753	2,060	3,620	6,800	10,400	15,400
Weighted skew	(logs) =	0.35			
Mean	(logs) =	2.91			
Standard dev.	(logs) =	0.50			

† Reliability of values in column is uncertain, and potential errors are large.

### Basin characteristics

Main channel slope (ft/mi)	Stream length (mi)	Mean basin elevation (ft)	Forested area (percent)	Soil index	Mean annual precipitation (in)	Rainfall intensity, 24-hour	
						2-year (in)	50-year (in)
82.9	11.9	4,260	0.0	1.0	15.0	1.9	4.0

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